

USSR/Diseases of Farm Animals - Diseases Caused by Bacteria
and Fungi.

R-2

Abs Jour : Ref Zhur - Biol., No 14, 1958, 64620

Author : Shchetinin, B.S.

Inst : Alma-Ata Zooveterinary Institute.

Title : The Effect of the Restoration of Bronchial Permeability
on the Respiration of Calves Affected with Purulent
Catarrhal Pneumonia.

Orig Pub : Tr. Alma-Atinsk. zoovet. in-ta, 1956, 9, 164-168

Abstract : A disorder of bronchial permeability, which can be organic
and functional, is an essential pathogenic factor in the
development of oxygen insufficiency and its after-effects
in purulent catarrhal pneumonia. The bronchial non-permea-
bility leads to atelectasis, development of purulent and
putrescent processes in the lung tissue, increase of the

Card 1/3

- 4 -

SHCHETININ, B.S., aspirant

Influence of novocaine anesthesia of the bronchial tubes on the deposit of penicillin in the lungs. Trudy AZVI 10:280-284 '57. (MIRA 12:8)

1. Iz kafedry chastnoy patologii i terapii (zav.kafedroy - chlen-korrespondent AN KazSSR, zasluzhennyy deyatel' nauki KazSSR, doktor prof. Ya.I.Kleynbok) Alma-Atinskogo zoovet-instituta.
(Novocaine) (Bronchi) (Penicillin)

SHCHETININ, B.S., aspirant

Comparative effectiveness of treating purulent and catarrhal
bronchopneumonia in calves with antibiotics. Trudy AZVI 10:
285-297 '57. (MIRA 12:8)

1. Iz kafedry chastnoy patologii i terapii (zav.kafedroy -
chlen-korrespondent AN KazSSR, zasluzhennyy deyatel' nauki
KazSSR, doktor prof. Ya.I.Kleynbok) Alma-Atinskogo zoovet-
instituta.
(Antibiotics) (Calves--Diseases and pests)

CHURCHILL, W.S., and V. I. ... (110) "The ... of ...
... and ... in the ... of ...
... AM ... 195 ... (110) ...
... (11, 26-50, 110)

SHKOL'NIK, I.M., kand. tekhn. nauk; SHCHETININ, D.D., inzh.

Increasing the fatigue strength of cast iron crankshafts. Vest.
TSNII MPB 23 no.4:35-38 '64. (MIRA 17:8)

L 34833-66 EWT(d)/EWT(m)/EWP(w)/EWP(v)/T/EWP(k)/EWP(h)/EWP(l) LJP(c) EM/DJ/EG
ACC NR: AP6014336 (N) SOURCE CODE: UR/0122/65/000/012/0045/0048

AUTHOR: Shkol'nik, L. M. (Candidate of technical sciences); Shakhov, V. I. (Candidate of technical sciences); Shchetinin, D. D. (Engineer) 41

ORG: None 37.
£

TITLE: Roller-hardening large crankshafts 1

SOURCE: Vestnik mashinostroyeniya, ^{1/5} no. 12, 1965, 45-48

TOPIC TAGS: work hardening, surface hardening, compressive stress, buckling, plastic deformation, fatigue strength, engine crankshaft

ABSTRACT: A method is described for roller-hardening crankshaft chamfers. The rolling is done on standard lathes with a special attachment (see figure). The shaft is hardened during rotation. The attachment is counterbalanced by weights and does not exert an unbalanced load on the shaft during machining. The absence of a nonuniform load on the shaft is a significant factor in reducing shaft deformation during hardening. A semi-automatic control device was incorporated to distribute the load evenly during hardening. The basic stress parameters of hardened crankshaft necks are taken as the maximum values of the surrounding residual compression stresses and the cross sectional depth of their effectiveness. Maximum residual compression stresses increase with machining stresses in the surface layers at a depth of 2 to 5 mm from the surface.

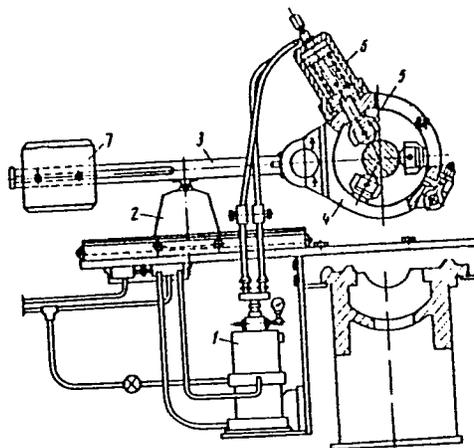
UDC: 621.787-233.13

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L 34833-66

ACC NR: AP6014336

Tests are performed to determine fatigue limits to find the optimum hardening process. It is shown that chamfer hardening raises the limit of fatigue by a factor of 1.8-1.9. Buckling is caused by residual stresses due to plastic deformation in the surface layer of the crankshaft metal during roller hardening of the chamfers. Comparative tests are performed to determine durability and service life. The tests show that critical temperatures appear in necks with various machined surfaces under uneven loading. Necks which are lapped after grinding or hardening take a greater load on the bushing than necks which are hardened after grinding or lapping. Inserts which are hardened after grinding take 1120 to 1220 kgf load on a pushing. Inserts which are work hardened after grinding take a load of 1420 kgf and those lapped after



14 Device for roller hardening crankshaft chamfers: 1--pneumohydraulic amplifier; 2--trolley; 3--guide rail; 4--split clamp; 5--roller; 6--hydraulic cylinder; 7--counterweight

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L 34833-66

ACC NR: AP6014336

hardening or after grinding take a load of 1620 kgf on the bushing. Bushings with necks which were lapped after hardening are much more durable than bushings where the necks were lapped after grinding. It is recommended that crankshaft necks should be lapped after hardening. Orig. art. has: 6 figures.

SUB CODE: 13/ SUBM DATE: 00/ ORIG REF: 002/ OTH REF: 000

Card 3/3 *fv*

ACC NR: AP012318 SOURCE CODE: UR/0304/65/000/006/0022/0029

AUTHORS: Okun', A. M. (Engineer); Shchetinia, D. D. (Engineer); Proskurin, L. F. (Engineer)

ORG: none

TITLE: Diamond wheel machining of cutting tools

SOURCE: Mashinostroyeniye, no. 6, 1965, 22-29

TOPIC TAGS: synthetic diamond, cutting tool, metal cutting, grinding, grinding machine

ABSTRACT: A committee for introducing synthetic diamonds into industrial use at the Kharkov Factory imen. Malyshev has been studying extensively the use of diamond wheels for grinding and finishing of hard alloy cutting tools. After a brief description of the types of grinders available at the factory (types 3A6M4, 3B642, 3V642, 3B71M, 3V71MV, 3G71, 3B722, 3225, 3225B, 3A226, 3A227, 31228, 3P95 and 3P95M) and of a new grinder recently developed, the results of their experimental program with diamond wheels for cutting tool machining are presented. Curves are presented of the cutting ability (gm/min) and surface finish of AS25 to AS5 (grain size designations) diamond wheels cutting T5K10, T15K6, VK8, and VK6 alloy specimens. Wear curves for diamond wheel finished and unfinished drills (of alloy R18) are also presented which show reduced wear of finished drills. A composite table is presented of the cutting

UDC: 621.9.038

Card 1/2

L 33475-66

ACC NR: AP6012318

operations performed on various alloys, the cutting parameters (speed, depth of cut, and feed rate), tools and machines used and the corresponding increased life of diamond wheel finished cutters. In each case tool life was increased by a factor of 1.3--2. A lengthy discussion of the optimum grinding parameters for machining of various cutting tools (drills, cutters, etc) is also presented. Orig. art. has: 6 figures and 1 table.

SUB CODE: 13/

SUBM DATE: none

Card 2/2 *mg 5*

L 11202-0/ EWI(A)/EWI(L)/EWI(K)/EWI(H)/EWI(V)/EWI(L)
ACC NR: AP6032049 SOURCE CODE: UR/0145/66/000/005/0157/0162

AUTHOR: Lysov, M. I. (Doctor of technical sciences, Professor); Snchetina, G. M.
(Graduate student)

CRG: None

TITLE: Optimum production capacity of rotary machines

SOURCE: IVUZ. Mashinostroyeniye, no 5, 1966, 157-162

TOPIC TAGS: production engineering, industrial production

ABSTRACT: The authors study variation in the technical and economic characteristics of rotary equipment as production capacity is increased. Optimum production capacity and optimum differentiation are considered for a given program using rotary machines... Functional and analytic relationships are established which determine the optimum layout for individual machines and for combinations. An empirical example is given to illustrate these relationships. The article was presented for publication by Professor I. F. Parkhomenko of the Kazan' Aviation Institute. Orig. art. has: 3 figures, 16 formulas.

SUB CODE: 13, 14/ SUBM DATE: 17Sep64

Card 1/1 jb

SHCHETININ, I.

Leaning upon many active workers. MTO 3 no.12:35 D '61.(MIRA 15:1)

1. Nachal'nik proyektno-konstrukterskogo otdela polimetallicheskogo kombinata, g. Leninogorsk.
(Leninogorsk--Metallurgical plants)

APPLIANCE ENABLING GAS PRODUCERS TO WORK ON GREEN BELLETS. Shchetinin, I.P.
(Lesnaya Prom. (Timber Ind.) Feb. 1952,7).

SHCHETININ, I.P., inzhener

Crane for lifting tree length logs. Mekh trud. rab. 9 no.6:33-35
Je '55. (MLRA 8:6)

(Hoisting machinery)

SHCHETININ, I.P., inzhener

The new TDT-54 skidding tractor. Mekh.trud.rab.9 no.9:8-11 S'55.
(Lumbering--Machinery) (MLBA 8:12)

GORBACHEVSKIY, V.A.; UVAROV, N.V.; SHCHETININ, I.P., red.; MERZHANOVA,
O.M., red. izd-va; KARASIK, N.P., tekhn. red.; VOLKHOVER, P.S.,
tekhn. red.

[MAZ-501 log truck] Lesovosnyi avtomobil' MAZ-501. Moskva, M-vo
lesnoi promyshl. SSSR, 1956. 9 p. (MIRA 11:10)
(Lumber-Transportation)
(Motortrucks)

MOREYEV, A.K.; SHCHETININ, I.P., red.; VORONETSAYA, I.L., red. izd-va;
BACHURINA, A.M., tekhn. red.

[TSNIIME UZS-5 universal saw sharpener; "Forestry and Lumber"
pavilion] Universal'nyi satochnyi stanok TsNIIME UZS-5;
Pavil'on "Lesnaia promyshl. i lesnoe khoziaistvo." [Moskva]
TSentr. byuro tekhn. informatsii [1957] 5 p. (MIRA 11:10)

1. Moscow. Vsesoyuznaya promyshlennaya vystavka.
(Saw filing)

BUTYLOCHKIN, M.I.; SHCHUPININ, I.P., red.; NIKITINA, L.V., red. izd-va;
BACHURINA, A.M., tekhn. red.

[MD-2 railway motorcar; "Forestry and Lumber" pavilion] Motodrezina
MD-2; Pavil'on lesnaia promyshlennost' lesnoe khoziaistvo. [Moskva]
TSentr. byuro tekhn. informatsii [1957] 5 p. (MIRA 11:10)

1. Moscow. Vsesoyuznaya promyshlennaya vystavka.
(Railroad motorcars)

OSIPENKO, I.S.; SHCHETININ, I.P., red.; BEL'CHENKO, M.I., red. izd-va,;
BACHURINA, A.M., tekhn. red.

[Mobile equipment for preliminary loading of tree-length logs;
"Lumber industry and forestry" pavilion] Peredvizhnaya ustanovka
dlya predvaritel'noi pogruzki khlystov; pavil'on "Lesnaya
promyshlennost' i lesnoe khoziaistvo." [Moskva] M-vo lesnoi
promyshl. SSSR [1957] 19 p. (MIRA 11:11)

1. Moscow. Vsesoyuznaya promyshlennaya vystavka.
(Lumber--Transportation)

SULIMOV, Aleksandr Nikitich; STOGOV, Boris Nikolayevich; ~~SHCHETININ~~, Ivan Petrovich; ROGACHEV, F.V., red.; OSTRIROV, N.S., tekhn.red.

[Felling and cutting timber] Valka i raskriazhevka lesa. Izd. 3-e, ispr. i dop. Moskva, Vses. uchebno-pedagog. izd-vo Trudrezervizdat, 1957. 175 p. (MIRA 11:3)
(Lumbering)

Ливий, П.
MAKOVEYEV, P.D., inzhener; SHCHETININ, I.P., inzhener.

New electric tools for logging. Les. prom. 35 no.2:12-15 F '57.
(Lumbering--Machinery) (Power tools) (MLRA 10:4)

PERFILOV, Mikhail Alekseyevich; LAZAREV, Mikhail Fedorovich; SHCHETININ,
I.P., red.; GORYUNOVA, L.K., red. izd-va; BACHURINA, A.M., tekhn.
red.

[VTU-3 aerial skidder in combination with the L-70 winch; construction features and operation] Vozdushno-trelevochnaia ustanovka VTU-3 v komplekte s lebedkoi L-70; ustroistvo i ekspluatatsiia. Moskva, Goslesbumizdat, 1960. 123 p. (MIRA 14:9)
(Lumbering--Machinery)

BUSHUYEV, V.M.; SHCHETININ, I.P., red.; OSOKINA, A.M., red. izd-va;
VOLKHOVER, R.S., tekhn. red.

[BKMS-14P tower cranes for the unloading of lumber from river
craft] Bashennye krany BKMS-14P na vygruzke piloproductsii iz
rechnykh sudov. Moskva, Goslesbumizdat, 1956. 7 p.

(MIRA 15:9)

(Cranes, derricks, etc.)
(Lumber—Transportation)

BAEUSHKIN, Ivan Nikolayevich; FAKEYEV, A.D., inzh., retsenzent;
SHCHETININ, I.P., inzh., red.

[Technology of the repair of lumbering and forestry machines]
Tekhnologiya remonta lesozagotovitel'nykh i lesokhoziaistven-
nykh mashin. Moskva, Goslesbumizdat, 1963. 382 p.
(MIRA 17:6)

OLSON, W. L.

Plywood Industry

Supporting the mass movement of efficient workers and inventors. Dev. i lesokhin.
pron. 1 No. 7, 1952.

Monthly List of Russian Accessions, Library of Congress, June 1953. Uncl.

SHCHETININ, N.

Ukrainian financial organs in the struggle to improve the standard
of economic work. Fin. SSSR 17 no.2:29-34 P '56. (MLRA 9:6)

1. Ministr finansov Ukrainskoy SSR.
(Ukraine--Finance)

SHCHETININ, N.

Uncover hidden potentialities in the economy more completely.
Fin.SSSR 18 no.11:19-22 E '57. (MIRA 10:12)

1. Ministr finansov USSR,
(Ukraine--Economic conditions)

SHCHETININ, N.G.

Study of dysentery cultures not agglutinated by diagnostic sera
by means of the keratoconjunctivity test on guinea pigs and
rabbits. Zhur. mikrobiol. epid. i immun. 31 no. 5:120 My '60.

(MIRA 13:10)

(DYSENTERY)

PROKHOROV, G.N., gornyy inzh.; SEDLOV, M.G., gornyy inzh.;
SHCHETININ, N.I., gornyy inzh.

Study of the operation and practice of exploiting hinged
folding scrapers. Gor. zhur. no.7:44-46 J1 '63.
(MIRA 16:8)

1. Vsesoyuznyy nauchno-issledovatel'skiy gorno-metallurgi-
cheskiy institut tsvetnykh metallov (for Prokhorov).
2. Zyryanovskiy svintsovyy kombinat (Sedlov, Shchetinin).

SHCHETININ, N.N.

SHCHETININ, N.N.--"Pure Bending of Rods in Cases Where the Material Creeps."*(Dissertations For Degrees In Science And Engineering Defended At USSR Higher Educational Institutions.) (34). Moscow State U imeni M.V. Lomonosov, Moscow, 1955.

SO: Knizhnaya Letopis'. No. 34, 20 August 1955

* For the Degree of Candidate in Physicomathematical Sciences

SHCHETININ, N.N.

✓ Shchetin, N. N. Pure bending of rods in the case of creeping of the material. Izv. Akad. Nauk SSSR. Otd. Tehn. Nauk 1956, no. 8, 37-41. (Russian)

Pure bending with creep of a rectangular bar, sides $2b$, $2h$, under a constant moment M is considered. The strain-time law is

Shchetin 1-FW
2

$$\rho^{-1} \frac{\partial \rho}{\partial t} = n \left(\exp \frac{\sigma}{A_0} - 1 \right),$$

where $\rho = e - \sigma/E$, ν , n , A_0 , E being constants for the material at a given temperature. The other assumptions are $\rho = 0$ for $t = 0$, $e = \chi(t)y$, $4b \int_0^h \sigma y dy = M$. Convergent series for ρ and σ as functions of t are obtained.

R. C. T. Smith (Armidale).

RC T

SHCHETININ, N.N.

"Mechta" developing device. Biul.nauch.-tekh.inform.VIMS no.1:73
'60. (MIRA 15:5)

1. Institut prikladnoy geofiziki AN SSSR.
(Aerial photogrammetry--Equipment and supplies)

L 2664-66 EWT(1)/EWT(m)/FCC DIAAP GS/GW UR/0000/65/000/000/0466/0472
ACCESSION NR: AT5023961

AUTHOR: Izrael', Yu. A.; Tishchenko, O. P.; Shchetinin, N. N. 42
44.55 44.55 44.55

TITLE: Adsorption method of determining radon concentration in the
air from an airplane 79

SOURCE: Nauchnaya konferentsiya po yadernoy meteorologii. Obninsk, 44.55
1964. Radioaktivnyye izotopy v atmosfere i ikh ispol'zovaniye v
meteorologii (Radioactive isotopes in the atmosphere and their use
in meteorology); doklady konferentsii. Moscow, Atomizdat, 1965,
466-472

TOPIC TAGS: nuclear meteorology, aircraft radon measurement, radio-
active aerosol 12, 44.55 7M

ABSTRACT: A brief description is given of experimental airborne
equipment devised for in-flight measurement of the radon concentra-
tion in the atmosphere (apparently modified activated-carbon equip-
ment previously used for surface measurements). The laboratory tech-
niques and procedures used to calculate optimum conditions for the
rate and interval of sample collecting, as well as results obtained
in tests of the equipment are also presented. Radon concentrations

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ACCESSION NR: AT5023961

measured over land areas near the White Sea in 1960 were in agreement with data cited by Kirichenko and by Karol' and Malakhov in "Voprosy yadernoy meteorologii" (Problems in Nuclear Meteorology), Gosgeol-tekhizdat, 1962. Orig. art. has: 2 figures. [ER]

ASSOCIATION: none

SUBMITTED: 28Apr65

ENCL: 00

SUB CODE: ES, NP

NO REF SOV: 007

OTHER: 000

ATD PRESS: 4101

Card 2/2

ACCESSION NR: AP4044832

S/0280/64/000/004/0126/0136

AUTHOR: Beloglazov, I. N. (Moscow); Shchetinin, N. P. (Moscow)

TITLE: Oscillation in relay-type optimizing system with synchronous detection

SOURCE: AN SSSR. Izvestiya. Tekhnicheskaya kibernetika, no. 4, 1964, 126-136

TOPIC TAGS: automation, control system, optimizing system, relay control system, control system oscillation, synchronous detection

ABSTRACT: The authors show that subharmonic oscillations may arise in relay-type optimizing controllers with synchronous detection and derive the conditions for existence of forced oscillations and subharmonic operations in terms of the scanning signal parameters. A simple one-dimensional relay-controller is considered, with synchronous detection and sinusoidal scanning signal, the controlled object being free of inertia and having a parabolic characteristic. The controller utilizes a constant-speed motor to bring the controlled value to its extremum. The author then considers conditions for the generation of subharmonic oscillations. Frequency-analysis is difficult because of the optimizing characteristic and the synchronous detector. The path of a signal is traced through the system and equations derived for phase shift, etc.

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ACCESSION NR: AP4044832

It is shown that symmetric subharmonic oscillations can arise with a period which is an odd multiple of the scanning period, the amplitude being determined entirely by the order of the subharmonic. The theoretical predictions were verified by simulation which showed when forced oscillations and subharmonic generation occurred in terms of bandwidth of the filter, etc. Orig. art. has: 5 figures and 27 numbered formulas.

ASSOCIATION: none

SUBMITTED: 20Aug63

NO REF SOV: 002

ENCL: 00

OTHER: 000

SUB CODE: IE

Card 2/2

SHCHETININ, N. V. kandidat tekhnicheskikh nauk.

Physical principles of diesel locomotive operation. Elek. i tepl.
tiaga no.6:37-41 Je '57. (MLRA 10:8)
(Diesel locomotives)

Ильин-Ильин, К. В., кандидат технических наук.

Apparatus and operation of diesel locomotive engines. Elek. i tecl.
tippa no 7: 38-43 J1 57. (MIRA 1: 19)
(Diesel locomotives)

SHCHERBININ, N.V., kandidat tekhnicheskikh nauk.

Fuel supply and cooling systems for diesel locomotive engines.
Elek. i tepl. tiaga no. 2:40-43 Ag '57. (MLRA 10:8)
(Diesel locomotives)

SHCHETININ, N.V., kandidat tekhnicheskikh nauk.

System of lubricating diesel locomotives. Elek.i tepl.tiaga
no.9:38-40 S '57. (MIRA 10:10)

(Diesel locomotives)

✓
SHCHEPININ, N., kand.tekhn.nauk

Regulating the power of diesel engines. Elek.i tepl.tiaga
no.10:40-42 0 '57. (MIRA 10:11)

(Diesel locomotives)

SHCHETININ, N V

(U)

PHASE I BOOK EXPLOITATION

SOV/3252

Grigor'yev, Sergey Nikolayevich and Nikolay Vasil'yevich Shchetinin

Teplovyye dvigateli i kompressory (Heat Engines and Compressors)
Moscow, Transzheldorizdat, 1959. 363 p. 6,000 copies printed.

Ed.: L.A. Aleksandrov, Engineer; Tech. Ed.: G.P. Verina.

PURPOSE: The book is intended for students at technical schools of higher learning, especially those studying railway engineering. It can also be used by engineers specializing in steam engines and internal-combustion engines for transportation and industry.

COVERAGE: The book summarizes the experience obtained in designing and operating steam engines, internal-combustion engines and diesels, and steam turbines, especially in rail transportation. An historical sketch of the development of engine and turbine building in the USSR is given. Methods of calculating the thermal efficiency of the main types of engines are given and supplemented with diagrams and practical examples. Experience

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Heat Engines and Compressors

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In proper operation and maintenance is also presented. Docent N.V. Shchetinin wrote Part I and Chapters V-X of Part III. Professor S.N. Grigor'yev compiled Parts IV and V, and chapters I-IV and XI of Part III. Part II was written by Docent K.I. Yakovlev. Acknowledgement is extended to Professor A.S. Yastrzhembskiy, Doctor of Technical Sciences, and Docent V.V. Vodolazhchenko, Candidate of Technical Sciences, as well as to the staff of the Khar'kov Railway Engineering Institute for assistance in reviewing the manuscript. Specifications are given on some of the leading types of Soviet turbines, together with diagrams and data on the manufacturer. There are 32 Soviet references, 278 figures and 8 tables.

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Card 2/15

SHCHETININ, N.V., kand. tekhn. nauk, dots.; BELOKONEV, L.N., kand. tekhn. nauk,
dots.; GORODETSKIY, M.N., kand. tekhn. nauk, assistant

Performance of locomotive diesel engines under operating conditions.
Trudy MIIT no.112:5-22 '59. (MIRA 13:2)
(Diesel locomotives)

BOLKHOVITINOV, G.F., prof.; SHCHETININ, N.V., dotsent; BELOKONEV, L.N.,
dotsent; GORODETSKIY, M.N., dotsent

Load and economic characteristics of the TE3 diesel locomotive
under operational conditions. Trudy MIIT no.138:5-12 :61.
(MIRA 14:12)

(Diesel locomotives--Testing)

KOLOKOLOV, A.A.; SHCHETININ, N.V.; MIRONOV, N.I., inzh., retsenzent;
ZUYEV, Yu.F., inzh., retsenzent; KRAYNOV, B.P., inzh.,
retsenzent; BRAYLOVSKIY, N.G., inzh., red.; VOROTNIKOVA,
L.V., tekhn. red.

[Internal combustion engines for refrigerator rolling stock]
Dvigateli vnutrennego sgoraniia izotermicheskogo podvizhnogo
sostava. Moskva, Transzheldorizdat, 1963. 219 p.
(MIRA 16:7)

(Internal combustion engines)
(Refrigerator cars)

SHCHETININ, S.F., otvetstvennyy za vypusk; KOGAN, F.L., tekhnicheskiy
redaktor

[Technical specifications for repairing, assembling and testing the
GAZ-51 automobile] Tekhnicheskie usloviia na remont, sborki i
ispytanie avtomobilia GAZ-51. Moskva, Nauchno-tekhn. izd-vo avto-
transp. lit-ry, 1956. 259 p. (MLRA 9:12)

1. Moscow. Gosudarstvennyy vsesoyuznyy nauchno-issledovatel'skiy
institut avtomobil'nogo transporta.
(Automobiles--Repairing)

SHCHETININ, S.E., otvetstvennyy za vypusk; KOGAN, F.I., tekhnicheskii
redaktor

[Technical instructions for repairing, assembling and testing the
ZIS-150 automobile] Tekhnicheskie uslovia na remont, sborku i
ispytanie avtomobilia ZIS-150. Moskva, Nauchno-tekhn. izd-vo
avtotransp. lit-ry, 1956. 271 p. (MLRA 9:10)

1. Moscow. Vsesoyuznyy nauchno-issledovatel'skiy institut
avtomobil'nogo transporta.
(Automobiles--Repairing)

SHCHEPININ, Sergey Fedorovich, kand. tekhn. nauk; KUGEL', A.V.,
kand. tekhn. nauk, retsenzent; MAKHIMSON, V.A., red. izd-va;
DEMkina, N.F., tekhn. red.

[Wear and deformation of basic parts of motor vehicles]Iznos
i deformatsiia bazistykh detalei avtomobilei. Moskva, Mash-
giz, 1962. 97 p. (MIRA 15:10)
(Motor vehicles--Maintenance and repair)
(Mechanical wear) (Deformations (Mechanics))

SOV/101.58-10-5/25

AUTHOR: Matveyev, I.B.,

~~Shchetnikov, I.A.~~

TITLE: The Choice of the Crank Shaft Speed of Plunger Pumps
(Vybor chisla oborotov kol_enchatogo vala krivoshipno-
plunzhernykh nasosov)

PERIODICAL: Stanki i Instrument, 1958, ¹⁰ Nr 10, pp 17-19 (USSR)

ABSTRACT: In crank-driven plunger pumps of a given pressure and delivery there is a speed of rotation which yields the minimum sum of pressure and inertia forces in the crank mechanism. A formula (equation 10) is given for the optimum rpm in terms of the number of cylinders, the pump delivery, the bore to stroke ratio and a factor expressing the mass of the moving parts. This optimum rpm is independent of pressure and is proportional to the fifth root of the number of cylinders and inversely proportional to the fifth root of the delivery. The best bore to stroke ratios are in the range of 0.8 - 1.5 increasing with pressure and delivery. The optimum rpm is much higher than in

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SOV/121-58-10-5/25

The Choice of the Crank Shaft Speed of Plunger Pumps

standard Soviet Pump designs. A new pump designed and tested by ENIKMASh for a pressure of 200 kg/cm² and a delivery of 100 l/min, compared with a standard unit (model GB-354) for the same duty, has six cylinders instead of three, 1460 rpm instead of 340, a stroke of 28 mm instead of 18, a bore of 25 mm instead of 14 and weighs 300 kg instead of 1860. Both are driven by 40 hp. There are 2 illustrations including 1 graph, 1 photo and 2 tables.

Card 2/2

✓ MATVEYEV, I.B., kand.tekhn.nauk; SHCHETININ, T.A., inzh.

Elements of design and construction of rapid-stroke crankshaft-plunger pumps. [Nauch. trudy] ENIKMASHa 1:28-63 '59.

(MIRA 1:1)

(Pumping machinery)

MATVEYEV, I.B.; SHCHETININ, T.A.

Reducing the weight of crank plunger-pumps. Kuz.-shtam. proizv.
1 no.8:21-24 Ag '59. (MIRA 12:12)
(Forging machinery--Hydraulic drive)

SHCHETININ, T.A.

Testing presses with sliding clutches. Kuz.-shtan. proizv.
4 no.7:36-38 JI '62. (MIRA 15:7)
(Power presses--Testing)

SHCHETININ, T.A., inzh.

Geometry of the magnetic system of induction clutches and
brakes. Elektrotehnika 34 no.9:40-44 S '63. (MIRA 16:11)

SHCHETININ, T.A., inzh.

Choice of the dimensions of magnetic circuit components of d.c.
electromagnets. Elektrotehnika 35 no.4:49-52 Ap '64.
(MIRA 17:4)

SHCHETININ, Timofey Alekseyevich; DUBENSKIY, A.A., red.

[Induction clutches and brakes in drives with impact loading] Induktsionnye mufty i tormoza v privodakh s udarnoi nagruzkoi. Moskva, Energiia, 1965. 222 p.
(MIRA 18:12)

CA SHCHETININ, T.I.

An optical method for measuring temperatures in an enclosed flame. N. N. Sobolev and T. I. Shchetinin. *Zhur. Eksptl. Teoret. Fiz.* 20, 354-70(1950).—An air-kerosene vapor flame burning in a tube was observed spectrographically through quartz windows in the wall of the tube. The absorption coeff. of the flame for light passing through its diam. is independent of wave length from 4000 to 5400 Å. The plot of $\log E_{\lambda} + 5 \log \lambda$ against $1/\lambda$ is a straight line whose slope, $\tan \phi$, is proportional to the abs. temp.; E_{λ} is the observed relative intensity of radiation of wave length λ (in Å). The effective temp. of the flame in °K. is the max. temp. multiplied by ϕ . Twelve measurements by this method gave an av. of $1604 \pm 13^{\circ}\text{C}$. for the flame temp.; five measurements by the spectral-line-reversal method gave $1590 \pm 27^{\circ}\text{C}$. Axial and radial variation of temp. were measured by optical and probe methods, resp. C. F.

SHCHETININ, I. I.

PHASE I BOOK EXPLOITATION 509/5087

Kashchinskaya Institut. Sbornik nauchno-tekhnicheskoy literatury po elektronnoy tekhnike i konformirovaniyu avtomaticheskoy upravleniya (Problems of the Calculation and Design of Electronic Computers, 1) Moscow, Mashin, 1960, 194 p. Errata slip inserted, 8,000 copies printed.

Ed.: E. Ia. Kobrin, Doctor of Technical Sciences; Ed. of Publishing House: A. G. Akimov; Tech. Ed.: B. I. Model; Managing Ed. for Literature on Machine Building and Instrument Construction: I. P. Pokrovskiy, Engineer.

REMARKS: This collection of articles is intended for scientists and technicians working in computing-machine building and related fields.

COVERAGE: This collection of articles presents the results of investigations related to the design and development of electronic computers. It examines the realization of some general and special algorithms by means of digital and analog computers, investigates errors in the realization of functional and algorithms in electronic analogs, and reviews problems of computerized design, the external outfit and arrangement of digital computers based on various principles of operation. Methods of computerized design and characteristics of stabilized supply sources for digital and analog computers, methods of computing standard errors, problems related to their reliability are analyzed. No personalities are mentioned. References accompany some of the articles.

PART I. GENERAL PRINCIPLES OF COMPUTER DESIGNING

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Kozlov, G. A., P. M. ... Errors of Variable Coefficient Units With Step-by-Step Approximation	75
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PART II. EXTERNAL EQUIPMENT OF COMPUTERS

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Sepilin, M. B. Photoelectrical Computers Sensing Printed Figures	110
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Lashin, B. B., and I. K. Trepalov. Unit of Stabilized Supply Sources for an Electrical Simulator With Semiconductor Components	132
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PART IV. DESIGN OF ELECTRONIC COMPUTER CIRCUITS

Rizhko, I. Kh. On the Theory of Delay Components Containing Ferrites With a Rectangular Hysteresis Loop and Power Amplifiers	172
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VITENBERG, I.M.; PAVLIKOVA, M.G.; SHCHETININ, T.I.

Electric simulation of the characteristics of a turbojet engine.
Vop. rasch. i konstr. elektron. vych. mash. no.1:84-96 '60.
(MIRA 14:1)

(Aeroplanes--Turbojet engines)
(Electromechanical analogies)

ALEKSEYEV, Dmitriy Mikhaylovich; MIKHAYLOV, Anatsliy Petrovich; LYUBI-
MOV, N.N., prof., doktor ekonom.nauk, red.; SHECHETININ, V.D.,
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[European Coal and Steel Community] Evropeiskoe ob"edinenie
uglia i stali. Pod red. N.N.Liubimova. Moskva, Izd-vo In-ta
mezhdunar.otnoshenii, 1960. 282 p. (MIRA 13:6)
(European coal and steel community)

PLETNEV, Erik Panteleymonovich; SHCHETININ, V.D., red.; YERKHOVA,
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system of world economy] Mezhdunarodnaia migratsiia rabochei sily
v kapitalisticheskoi sisteme mirovogo khoziaistva. Moskva, Izd-
vo IMO, 1962. 375 p. (MIRA 15:7)

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NIKOL'SKIY, M.M.; NIKOL'SKIY, N.M.; PUCHKOV, I.B.; CHERNIKOV,
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soluznoe obshchestvo po rasprostraneniю politicheskikh i nauchnykh
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V.S., red.; ROMANOVA, N.I., tekhn. red.

[Problems of aiding economically underdeveloped countries] Pro-
bleny pomoshchi ekonomicheski slaborazvitym stranam. Moskva,
Izd-vo In-ta Mezhdunarodnykh otnoshenii, 1961. 279 p.

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(Underdeveloped areas) (Economic assistance)

SHCHETININ, Valentin Dmitriyevich; MOGILEVCHIK, A.Ye., red.;
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SHCHETININ, V. K.

137-58-5-10647

Translation from: Referativnyy zhurnal, Metallurgiya, 1958, Nr 5, p 254 (USSR)

AUTHORS: Kazarinov, V. M., Larin, T. V., Vukolov, L. A., Devyatkin, V. P., Tarasenko, A. Ya., Shchetinin, V. K.

TITLE: An Investigation of Materials for Brake Shoes of Improved Frictional Properties (Issledovaniye materialov dlya tormoznykh kolodok s povyshennymi fritktsionnymi svoystvami)

PERIODICAL: Vestn. Vses. n. -i. in-ta zh. -d. transp., 1957, Nr 7, pp 11-17

ABSTRACT: The increase in train speeds poses the problem of finding new materials for brake shoes (B) having high friction properties and resistance to wear. A test was run on B made at 3 plants from cast irons having various (up to 1.2%) P contents (with additions of Fe-P). The coefficient of friction and wear resistance were determined by weight loss at different speeds. The results were analyzed by the correlation process. These laboratory experiments are used to arrive at an iron of optimum composition, subject to verification by extensive service tests. In this composition is 2.8-3.2 C, 0.7-1 C combined, 0.7-1 Si, not over 1.2 Mn, 0.7-1 P, and ≤ 0.15 S. An important element of its

Card 1/2

137-58-5-10647

An Investigation of (cont.)

composition is P, which markedly increases the coefficient of friction. C and Si act in the opposite sense, and therefore they are held low. The iron must have a pearlite base. Also presented are data of laboratory and service tests of B made of various compositions (consisting of mineral fillers, powdered metals, and organic binders based on synthetic resins or rubbers).

S. O.

1. Materials--Production
2. Metals--Applications
3. Friction--Determination

Card 2/2

KAZARINOV, V.M., doktor tekhn.nauk; VUKOLOV, L.A., kand.tekhn.nauk; LARIN, T.V.,
kand.tekhn.nauk; DEVYATKIN, V.P., kand.tekhn.nauk; TARASENKO, A.Ya.,
kand.tekhn.nauk; SHCHEPININ, V.K., inzh.

Investigating brake shoes made of asbestos friction materials.
Trudy TSNII MPS no.163:5-37 '58. (MIRA 12:2)
(Railroads--Brakes--Testing)

SHCHETININ, V.K., inzh.

Laboratory investigation of asbestos friction materials suitable
for operating conditions of railroad brake shoes. Trudy TSHII
MPS no.163:38-60 '58. (MIRA 12:2)
(Railroads--Brakes--Testing)

TAPANENKO, I.T., inzh.; SHCHETININ, V.K., inzh.

Effect of components on properties of asbestos friction materials.

Trudy TSNII MPS no.163:61-65 '58. (MIRA 12:2)

(Asbestos--Testing)

PHASE I BOOK EXPIRATION NOV/3/50M

Академия наук СССР. Институт машиностроения
Повышение эффективности торможения автомобилей. Свойства фрикционных материалов (Увеличение эффективности торможения автомобилей). Свойства фрикционных материалов. Москва, Изд-во АН СССР, 1979. 103 с. Extra slip inserted. 1,800 copies printed.

Респ. Кд.: Т.С. Шихадьев, Доктор Technical Science, Professor, Kd. of Publishing House: P.N. Palyamny Techn. Div. 1. Y. Polyn-Kova.

PURPOSE: This collection of articles is intended for engineers and scientific workers specializing in brakes and friction materials.
CORRECTION: The first group of articles deals with basic design measures for increasing the life and efficiency of brakes, the second group with problems related to the development and fields of application of new friction materials, the third group with testing methods and the results of investigations of friction pairs and brakes, and the fourth group with the design of references and calculation data. No personal data are mentioned. References accompany most of the articles.
PART III. METHODS OF TESTING AND INVESTIGATING FRICTION PAIRS AND BRAKES

Lavrentsev, O. I. Methods of Inspection Testing of Brake Linings for Automobiles 121
This article deals with the development of a method and equipment for testing automobile brake linings under conditions close to those during actual operation.

Shikhad'yev, T.K. Testing Asbestos Friction Materials by the Model-Test Method 130
The author describes the working principle of a newly developed method for testing the friction coefficient of friction wear, bedding action, and the temperature regime of various types of asbestos friction material.

Chikhin, A.V. Laboratory Full-Scale Tests of the New PK-161 Retainers Friction Material on a Heavily Loaded Brake 145
The author gives experimental data on the above material developed at NIIMI GIN and IMAI of the Academy of Sciences of the USSR on full-scale drum and disk-type brakes.
PART IV. DESIGNING BRAKES 159

Aleksandrov, M.P. Modeling in Designing and Calculating Braking Devices for Freight-holding Equipment, and the Analytical Work Involved in It. 159

Marobkin, V.N., and A.V. Chikhin. Calculating Resistance Forces in Disk Brakes 170
The authors present a method of exact calculation of the elements of resistance, the friction force and torque of a sector-type brake shoe. The method can be also applied to any other shape of the brake shoe.

Shikhad'yev, T.S., and A.V. Chikhin. On the "Mutual Overlapping" Coefficient Ratio of Friction Surfaces of Two Bodies in Sliding Contact 180
The authors discuss dependence of the coefficient of friction and the rate of the temperature gradient in the sliding process on the friction surface. They also discuss the dependence of the three above-mentioned parameters and of the friction surface temperature on the coefficient of mutual overlapping.

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Experience in immunization of persons with killed
vaccine against Q fever. Zhur. mikrobiol., epid. i immun.
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URAKOV, N.N.; PSHENICHNOV, V.A.; SHCHETININ, V.P.; TERESHCHENKO, M.O.

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epid. i imm. 41 no. 2:5-10 F '64. (MIRA 17:9)

SHCHETININA, A., dots.

Training maritime specialists in Sweden. Mor.flot 18 no.12:28
D '58. (MIRA 12:1)

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parakhodstva (for Matsyuto).
(Tides—Tables)

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Anna Ivanovna, kapitan dal'nego plavaniya, spets. red.; SANDLER, N.V.,
red. izd-va; KOTLYAKOVA, O.I., tekhn. red.

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prilivov v sudovozhdenii; metodicheskoe rukovodstvo k prakti-
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I.I., POPOVA, V.N., KUCHENKO, I.I.

Results of the treatment of acute dysentery at home,
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no. 10-11 '65. (MIRA 18:2)

I. I. Moskva-ye meditsinskoye univ. imeni Pirogova, 2-ya
Klinicheskaya infektsionnaya bol'nitsa i poliklinika Pervomayskogo
pr. Leninskogo rayona Moskvy.

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SHCHETININA, I. N.

Clinical aspects and treatment of Q fever. Sov.med.19 no.7:
56-60 J1 '55. (MLRA 8:10)

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korrespondent Akademii meditsinskikh nauk SSSR prof. A.F.
Bilibin) i Meditsinskogo instituta imeni I.V. Stalina.

(Q FEVER

clin. aspects & biomycine ther.)

(ANTIBIOTICS, ther. use

biomycine, in Q Fever)

SHCHETININA, I.N.

Features of clinical and laboratory manifestations of lingering forms of Botkin's disease. Sov.med. 21 no.3:11-17 Mr '57. (MLRA 10:7)

1. Iz kliniki infektsionnykh bolezney (zav. kafedroy - chlen-korrespondent Akademii meditsinskikh nauk SSSR prof. A.F.Bilibin) II Moskovskogo meditsinskogo instituta imeni I.V. Stalina.

(HEPATITIS, INFECTIOUS,
clin. aspects & laboratory findings)

SHCHETININA, I.N.

Some indexes of the enzymatic activity of the intestine in
dysentery. Terap.arkh. 32 no.9:52-57 '60. (MIRA 14:1)

1. Iz kafedry infektsionnykh bolezney (zav. - chlen-korrespondent
AMN SSSR prof. A.F. Bilibin) II Moskovskogo meditsinskogo insti-
tuta imeni N.I. Pirogova.
(DYSENTERY) (KINASE) (PHOSPHATASE)

BILIBIN, A.F.; SHCHETININA, I.N.

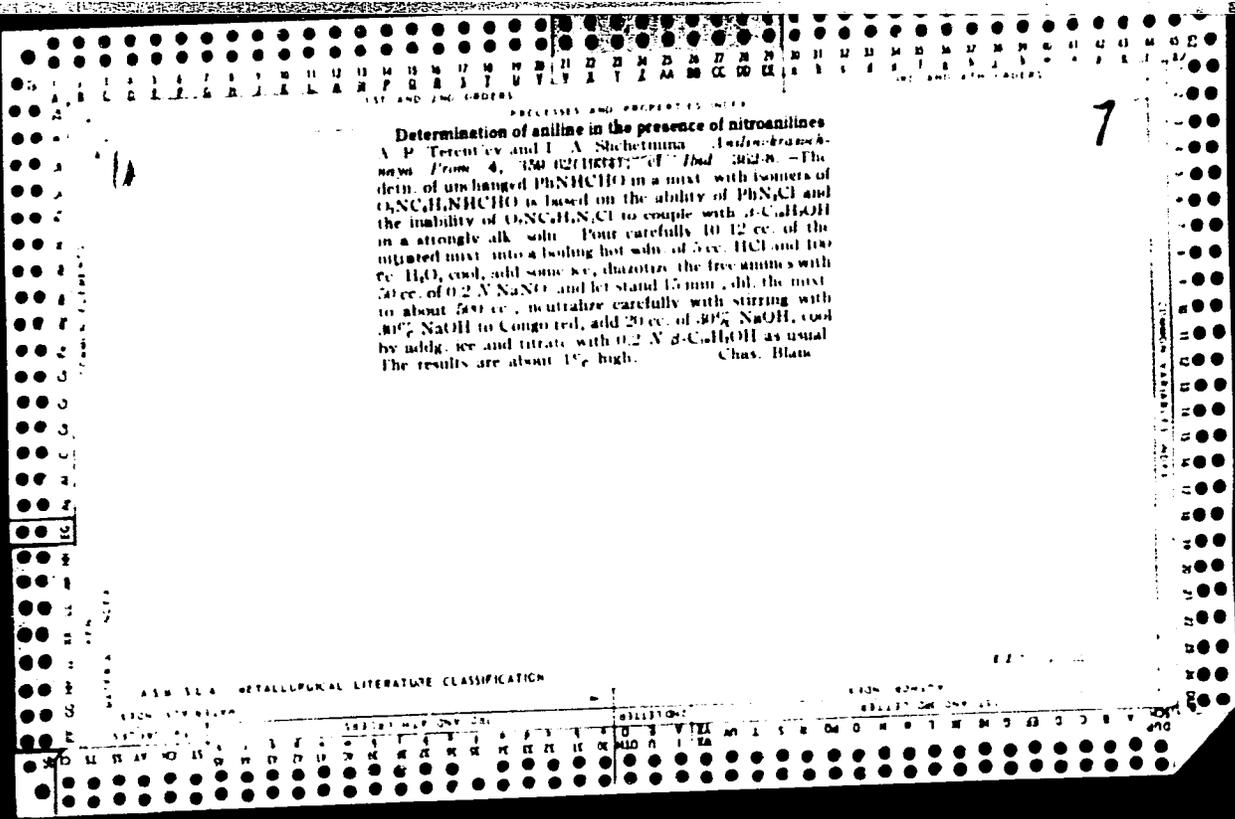
Treatment of acute dysentery according to recent clinical data.
Vest. AMN SSSR 17 no.2:62-70 '62. (MIFA 15:3)

1. II Moskovskiy meditsinskiy institut imeni N.I. Pirogova.
(DYSENTERY)

BASALOV, A.A.; GILBININ, S.A.; KADY, T.F.; SHEPETINKA, I.H.; YUDIN, I.Yu.

Clinicoroentgenological and roentgenomorphological comparisons in nonspecific ulcerative colitis. Vest. rent. i rad. 39 no.1:3-7
Ja-F '64. (MIRA 18:2)

1. Kafedry fakul'tetskoy khirurgii (zav. - prof. A.A. Basalov),
infektsionnykh bolezney i trav. - deystvitel'nyy chlen AMN SSSR
prof. V.F. Gilbinin), patologicheskoy anatomii (zav. - deyst-
vitel'nyy chlen AMN SSSR prof. I.V. Davydovskiy) II Moskovskogo
meditsinskogo instituta imeni Pirogova.



Analysis of dimitrohydroxydiphenylamine. G. S. Tam-
 pin and L. A. Shchetkina. *Azidobrazokhaya Prom.*
 4, 020-4(1954). The following analysis of $m\text{-(O}_2\text{N)}_2\text{-C}_6\text{H}_3\text{NH}_2$
 and its impurities of $2,4\text{-(O}_2\text{N)}_2\text{C}_6\text{H}_3\text{NH}_2$ (I) and insol. matter are
 $\text{C}_6\text{H}_5\text{NH}_2$ (II), $p\text{-H}_2\text{NC}_6\text{H}_4\text{NH}_2$ (III) and insol. matter are
 recommended in the control of the production of 8 black
 blue. For detn. of I and insol. matter, dissolve 2-3 g. I
 in 150 cc. of 1.5% NaOH with gentle heating, filter warm
 through a tared filter, wash with dil. NaOH to decoloriza-
 tion and then with little hot H_2O , cool the filtrate, add 30
 cc. of 30% HCl, filter off I through a weighed Schott filter,
 wash the filtrate to a neutral reaction to Congo red paper
 and dry at 105° . Det. III by heating 10 g. I with 200 cc.
 of 10% HCl and titrating the filtrate with 0.2 N NaNO_2 .
 Since I is usually contaminated with CaCl_2 , the detn. of
 II by titration of Cl with AgNO_3 is made in 2 samples

with and without sapon., the difference between the 2
 values gives AgNO_3 used in the pptn. of Cl ion after the
 sapon. Boil 10 g. I in 80 cc. alc. with 15 cc. of 15% NaOH
 for 1 hr., let stand 1 hr., add 100 cc. H_2O , 20 cc. of concd.
 HNO_3 and 30 cc. of 0.1 N AgNO_3 , filter, wash with H_2O
 and titrate the filtrate with 0.1 N NH_4CNS until a spot
 test against a drop of $\text{Fe}_2(\text{SO}_4)_3 \cdot (\text{NH}_4)_2\text{SO}_4$ gives an orange
 line. Proceed as above with 10 g. I but without sapon.
 with NaOH. The detns. are accurate to 0.7% for I and
 to 0.1% for II and III. Chas. Blanc

Shchetinina, L. A.

USSR/Scientists - Chemistry

Card 1/1 : Pub. 151 - 37/37

Authors : Rodionov, V. M.; Vorozhtsov, N. N.; Smirnova, A. F.; Shchetinina, L. A.;
Shestov, A. P.; Korolev, A. I.; Lukashevich, V. O.; and Ufimtsev, V. N.

Title : In memory of Evgeniy Alekseevich Ivanov

Periodical : Zhur. ob. khim. 24/3, 579-580, Mar 1954

Abstract : Eulogy is presented honoring the passing of E. A. Ivanov, chief of the
Central Laboratory of the Dorogomilov-Frunze Chemical Plant, scientist
in the field of organic semi-products and dyes, recipient of Stalin
premium. Illustration.

Institution:

Submitted :

SHCHETININA, L.A.

Smelt of the Rybinsk Reservoir. Zool. zhur. 33 no. 6: 1336-1343
N-D '54. (MIRA 8:2)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut ozernogo
i rechnogo rybnogo khozyaystva.
(Rybinsk Reservoir--Smelts)

SHCHETININA, L.A.

On the reproduction on Prussian carp in the Veselovskoye Water Reservoir [with English summary in insert]. Zool.zhur.35 no.10:1517-1521 0 '56. (MIRA 10:1)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut ozernogo i rechno-go rybnogo khozyaystva.

(Veselovskoye Reservoir--Carp)

USSR / Soil Science. Soil Genesis and Geography. J

Abs Jour: Ref Zhur-Biol., No 7, 1958, 29439.

Author : Shchetinina, L. L., Butenko, V. A., Kominar, J.A.
Inst : Zhitomir Agricultural Institute.
Title : The Soils at the "Osnyki" Experimental Training
Farm of the Zhitomir Agricultural Institute.
(Pochvy uchebno-opytного khozyaystva "Osnyki"
Zhitomirskogo sle'skokhozyaystvennogo instituta).

Orig Pub: Nauchn. tr. Zhitomirsk. s.-kh. in-t, 1957, 4,
217-227.

Abstract: No abstract.

Card 1/1

12

SHCHETININA L.L.
SHCHETININA, L.L.; BUTENKO, V.A.

Calorimetric method of determining the total nitrogen content
in soil and plants. Pochvovedenie no.8:98-101 Ag '57 (MIRA 10:11)

1. Zhitomirskiy sel'skokhozyaystvennyy institut.
(Soils--Analysis) (Plants--Analysis) (Nitrogen)

DUZINKEVICH, S.Yu., inzh., red.; BAT', A.A., inzh., red.; MIKHAYLOVSKIY,
P.A., inzh., red.; SHCHETININA, L.S., inzh., red.; IFTINKA,
G.A., red.izd-va; PETROVA, V.V., red.izd-va; CHERKASSKAYA,
F.T., tekhn. red.; NAUMOVA, G.D., tekhn. red.

[Construction specifications and regulations] Stroitel'nye nor-
my i pravila. Moskva, Gosstroizdat. Pt.2. Sec.A. ch.2.
[Alphabetical symbols] Bukvennye oboznachenia (SNiP II-A.
2-62). 1962. 4 p. Pt.2. Sec.E. ch.2. [Transmitting and re-
ceiving radio centers; specifications for designs] Peredaiu-
shchie i priemnye radiotsentry; normy proektirovaniia (SNiP
II-E. 2-62). 1963. 32 p. (MIRA 16:7)

1. Russia (1923- U.S.S.R.) Gosudarstvennyy komitet po delam
stroitel'stva. 2. Gosudarstvennyy komitet po delam stroitel'-
stva Soveta Ministrov SSSR (for Mikhaylovskiy). 3. Gosudar-
stvennyy soyuznyy proyektnyy institut Ministerstva svyazi
SSSR (for Shchetinina).

(Technology--Abbreviations) (Radio stations)

SHCHETININA, M.

M-4

USSR/Cultivated Plants - Technical, Oil, and Sugar Plants.

Abs Jour : Ref Zhur - Biol., No 3, 1958, 10927

Author : Andreyeva, R.A., Shchetinina, M.

Inst : -

Title : The Effect on Sugar Beet Yields of Treating the Seed With Heteroauxin.

Orig Pub : Udobreniye i urozhay, 1956, No 8, 27-30

Abstract : In field experiments conducted in the Vorob'yev Grain Sovkhoz (Voronezhskaya oblast') a study was made of the effect on sugar beet growth and yield of soaking the seed for 24 hours in a heteroauxin solution (20 mg./liter). In a 1954 experiment the sugar beet root yield increased by 30% under the effect of treating the seed with heteroauxin. In two 1955 experiments, on areas of six and four hectares, the field germination increased by 8-18% (depending upon the fertilizers applied) when the seed was treated, and the average weight of the young plants

Card 1/2